For Non-Health Hazard Applications

Job Name _____ Contractor _____

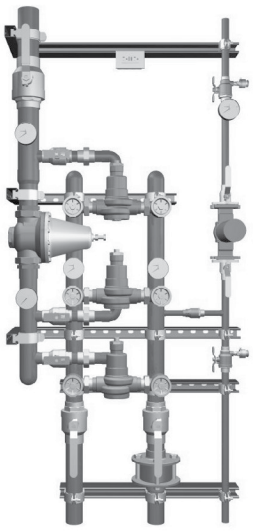
Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

Triple Valve PowerStation™

Capacity up to 416 gpm



Advanced Thermal Activation

Features

- Paraffin-based advanced thermal actuation technology to sense and adjust outlet temperature
- Dirt and lime resistant poppet and seat design
- Virtual shutoff if supply pressure fails
- Vandal-resistant locking mechanism to secure temperature setting
- Mounted on a heavy-duty, welded struts and factory tested as a complete unit
- Includes Pressure/Temperature Gauges and Ball valves

Specifications

Connections	See Ordering Information
Maximum Operating Pressure	125 psi (861 kPa)
Maximum Hot Water Temperature	200°F (93°C)
Minimum Hot Water Supply Temperature*	5°F (3°C) above set point
Hot Water Inlet Temperature Range	120 – 180°F (49 – 82°C)
Cold Water Inlet Temperature Range	40 – 80°F (4 – 27°C)
Minimum Flow**	0.5 gpm (1.89 lpm)
Temperature Adjustment Range***	90 – 160°F (32 – 71°C)
Listing/Compliance (Valves Only)	ASSE 1017, CSA B125

** With Equal Pressure*

*** Minimum flow when TVPS is installed at or near hot water source recirculating tempered water with a properly sized continuously operating recirculating pump.*

**** Note: Low limit cannot be less than the cold water temperature. For best operation, hot water should be at least 5°F (3°C) above desired set point.*

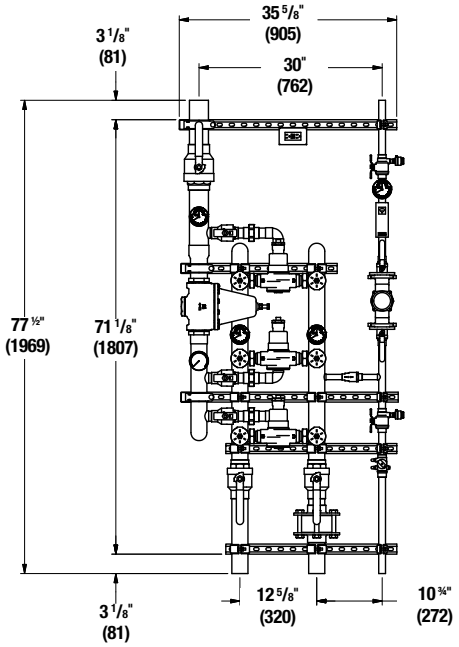
Capacity

Flow Capacity at 50-50 Mixed Ratio								
		Pressure Drop Across Valve						
Model	Min. Flow to ASSE 1017	Cv	5 psi (34 kPa)	10 psi (69 kPa)	20 psi (138 kPa)	30 psi (207 kPa)	45 psi (310 kPa)	60 psi (414 kPa)
SH1434TV	1 gpm 4 lpm	62.00	139 gpm 526 lpm	196 gpm 742 lpm	277 gpm 1049 lpm	340 gpm 1287 lpm	416 gpm 1575 lpm	480 gpm 1817 lpm

POWERS™
A WATTS Brand

Dimensions

SH1430 Triple Valve



Note:
Dimensions are shown ±½''
Dimensions in parentheses are in mm

Ordering Information

P S W ☐ ☐ ☐ ☐ ☐

Valve	Inlets (in)	Outlet (in)	Order Code
SH1434TV	2 ½ (65mm)	3 (80mm)	W

Controls

None	O
Aquastat	A
AquaSentry® 2	B
Aquastat & AquaSentry® 2	C

Balancing Valve

None	O
Circuit Setter	A

Return Pipe Size

½"	(15mm)	A
¾"	(20mm)	B
1"	(25mm)	C
1-¼"	(32mm)	D
1-½"	(40mm)	E
2"	(50mm)	F

Assigned by Factory

Pump Information:

Pump Manufacturer: _____
Their Part #* _____

* If the pump is not selected, you must provide the following:
System Head Loss _____
Required Flow to Maintain Recirculating Temperature _____

Recirculation Piping Diagram

Please see Piping Diagram Section of this catalog.

Typical Specification

Water temperature control system should include three thermostatic mixing valves capable of maintaining water temperature to 5°F (3°C) above set point within the range of 90°F to 160°F (32 to 71°C). Valve must compensate for temperature fluctuation due to inlet temperature or pressure changes. Valve should be of bronze body with triple-duty checkstops and must have an advanced, paraffin-based thermal actuator in order to guarantee precise control when tested in accordance with ASSE 1017 and CSA B125.

Control system should be mounted on heavy-duty welded struts with corrosion resistance coating and factory tested as a complete unit. It should include GFCI protection, engineer specified circulator and combination temperature/pressure gauges. The system should feature optional Aquastat to maintain system balance.

The control system shall be a Powers' PowerStation Model _____. Any alternate must have a written approval prior to bidding.

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USA: Tel: (800) 669-5430 • Fax: (847) 229-0526 • PowersControls.com
Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • PowersControls.ca
Latin America: Tel: (52) 81-1001-8600 • PowersControls.com